

**Chromaclone PVS Impression Material (Ultradent Inc.)**  
**(Project #07 - 024) (6/09)**



Chromaclone PVS is a vinyl polysiloxane impression material marketed by Ultradent Inc. that is indicated for all final impressions for fixed or removable prosthodontics including crowns, bridges, dentures, partial dentures, and implants or whenever impression accuracy is of the prime concern. Chromaclone PVS is said to be dimensionally stable to allow multiple casts to be poured from an impression (for up to 15 days) as well as being compatible with all gypsum products, electroplating and refractory casts. Chromaclone PVS is available in an automix delivery system in four viscosities (Heavy, Medium, Wash, Super Light). Each viscosity is available in either fast set (working time from 1.5 to 2.5 minutes; setting time four to five minutes) and regular set (working time two to three minutes; setting time four to five minutes) delivery systems. Chromaclone PVS has a bubble gum scent/flavor and has an advertised three-year shelf life.



**Manufacturer:**

Ultradent Products, Inc  
505 West 10200 South  
South Jordan, UT 84095  
(800) 552-5512  
(800) 842-9024 FAX  
[www.ultradent.com](http://www.ultradent.com)

**Suggested Retail Price:**

\$119.99 Chromaclone PVS Regular Set Kit (#5000)

Contains:

- one 50 mL cartridge each of regular set Wash, Medium, and Heavy viscosity materials
- 19 mixing tips (5 pink, 14 yellow)
- 20 intraoral tips
- one 10 mL bottle tray adhesive
- one dispensing gun

\$119.99 Chromaclone PVS Fast Set Kit (#5001)

Contents as listed above, but contains fast-set materials

\$34.99 Chromaclone PVS Refill Kits

- Super Light Fast Set (#7601)
- Super Light Regular Set (#7602)
- Wash Regular Set (#5030)
- Wash Fast Set (#5031)
- Medium Regular Set (#5020)
- Medium Fast Set (#5021)
- Heavy Regular Set (#5010)
- Heavy Fast Set (#5011)

Each Contains:

- two 50 mL cartridges material
- 14 mixing tips
- 14 intraoral tips

\$149.99 Chromaclone PVS Econo Refill Kits

Wash Regular Set (#5032)

Wash Fast Set (#5033)

Medium Regular Set (#5022)

Medium Fast Set (#5023)

Heavy Regular Set (#5012)

Heavy Fast Set (#5013)

Each Contains:

- ten 50 mL cartridges material
- 50 mixing tips
- 14 intraoral tips

**Government Price:** (item number and contents as listed above)

\$101.99 Chromaclone PVS Regular Set Kit

\$101.99 Chromaclone PVS Fast Set Kit

\$29.74 Chromaclone PVS Refill Sets

\$127.49 Chromaclone PVS Econo Refill Sets

#### **ADVANTAGES:**

- + Meets ANSI/ADA specifications for detail reproduction
- + Heavy-body tray material meets ANSI/ADA detail reproduction specifications as light-body wash material
- + Meets ANSI/ADA specifications for linear dimensional stability
- + Light-body materials have tear strength values similar to other materials under DECS testing conditions
- + Medium body material has similar tear strength values to that seen of rubber base material
- + Acceptable working and setting times
- + Acceptable contact angles suggested adequate hydrophilicity
- + Taste and odor well tolerated by patients
- + Viscosity of different materials adequate for intended clinical purpose
- + Easy to remove from the oral environment
- + Good packaging configuration
- + Easy to read manufacturer instructions containing adequate technical detail
- + Similar in price to other impression materials

#### **DISADVANTAGES:**

- No major disadvantages were identified during this evaluation

#### **SUMMARY AND CONCLUSIONS:**

Chromaclone PVS is a polyvinyl siloxane elastomeric impression material marketed by Ultradent. Under DECS laboratory testing conditions, Chromaclone PVS provided excellent detail reproduction and the heavy-body material met the same ANSI/ADA detail reproduction standards as for light-body impression materials. Chromaclone PVS materials also met ANSI/ADA standards for linear dimensional stability, had acceptable working and setting times, and demonstrated hydrophilicity (via contact angle measurement) that was in the same range reported for other elastomeric impression materials in the scientific literature. Chromaclone PVS tear strength values were similar to other polyvinyl siloxane elastomeric impression materials tested by DECS and the medium-body material had tear strength values that were statistically similar to that demonstrated of rubber base impression materials. The clinical users liked the packaging configuration and thought that the manufacturer instructions were easy to read and contained adequate technical detail. The evaluators reported that none of their patients objected to the taste or odor of Chromaclone PVS materials, that the materials were easy to remove from the oral environment, and the viscosity of each material was adequate for its intended clinical purpose. **Chromaclone PVS** is rated **Acceptable** for use in US Air Force dental facilities.